

# DALLAS SEMICONDUCTOR

## UniqueWare™ DS2502/5/6-UNW Add-Only Memory

### SPECIAL FEATURES

- 1024 bits, 16K bits or 64K bits Electrically Programmable Read Only Memory (EPROM) communicates with the economy of one signal plus ground
- Unique, factory-lasered and tested 64-bit registration number (8-bit family code, 36-bit serialization, 12-bit UniqueWare Identifier 5E7H, 8-bit CRC-tester) assures absolute traceability because no two parts are alike.
- Built-in multidrop controller ensures compatibility with other MicroLAN products
- EPROM partitioned into two 256-bit pages for randomly accessing packetized data records
- Each memory page can be permanently write-protected to prevent tampering
- Device is an "add only" memory where additional data can be programmed into EPROM without disturbing existing data
- Reduces control, address, data, power and programming signals to a single pin
- Directly connects to a single port pin of a microprocessor and communicates at up to 16.3k bits per second
- Presence detector acknowledges when reader first applies voltage
- Low cost TO-92/PR-35 or 8-pin SOIC and TSOC surface mount packages
- Reads over a wide voltage range of 2.8V to 6.0V from -40°C to +85°C

### SILICON LABEL DESCRIPTION

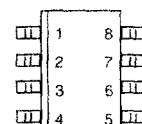
UniqueWare Add-Only Memories are factory programmed versions of the DS2502 (1024 bit), the DS2505 (16K bit) and the DS2506 (64K bit) Add-Only Memories, respectively. They differ from the regular devices in their custom ROM family codes (see Ordering Information) and the UniqueWare Identifier 5E7 in place of the upper 12 bits of the standard serialization field. For technical details on the devices please refer to the DS2502, DS2505 and DS2506 data sheets.

UniqueWare Add-Only Memories are only available preprogrammed with customer-specific and write-protected data. UniqueWare data fills at least one but no

TO-92/PR-35



BOTTOM VIEW  
See Mech. Drawings  
Section



8-Pin SOIC

See Mech. Drawings  
Section

TSOC PACKAGE



TOP VIEW

3.7 X 4.0 X 1.5 mm  
See Mech. Drawings  
Section

### PIN ASSIGNMENT

	TO-92/PR-35	TSOC	SOIC
Pin 1	Ground	Ground	NC
Pin 2	Data	Data	NC
Pin 3	NC	NC	Data
Pin 4	—	NC	Ground
Pins 5 to 8	—	NC	NC

more than the first four pages of a device, depending on the length of the customer-supplied data. This leaves up to three (DS2502-UNW), 63 (DS2505-UNW) or 255 (DS2506-UNW) memory pages available for programming in the application.

For more details on UniqueWare and how to set up data files, please refer to the UniqueWare Project Setup Manual, available as Application Note 99 from Dallas Semiconductor. The UniqueWare Project Setup Software is available from the Dallas Semiconductor FTP Site at [ftp://ftp.dalsemi.com/pub/auto\\_id\\_unwsetup.exe](ftp://ftp.dalsemi.com/pub/auto_id_unwsetup.exe).